

IN THE CLAIMS

1. (Currently amended) An installation tool for landing a casing hanger, ~~supported by a tubular string in a wellhead~~ and setting a seal assembly in the annulus between the casing hanger and wellhead a surrounding tubular without requiring rotation of the drill pipe string, comprising:

a mandrel having an upper end connectable adapted for connection to a the tubular string of drill pipe and a bore therethrough;

a tool body having a lower end adapted for connection to the hanger a string of drill pipe, said tool body carried by said mandrel, said mandrel and said tool body axially moveable relative to one another,

~~a plurality of connection means~~ at least one first connector positioned on said tool body for releasably connecting said tool body to a the casing hanger without mandrel rotation;

~~a plurality of connection means~~ at least one second connector positioned on said tool body for releasably connecting said tool body to a the seal assembly;

a pressure responsive shuttle piston on said mandrel, said shuttle piston is axially moveable to urge said the seal assembly into the annulus between the said casing hanger and a the wellhead surrounding tubular in which said casing hanger is landed, without rotation of said mandrel; and,

said mandrel having a valve means positioned in said mandrel bore, said valve means operable between open and closed positions by axial movement of said mandrel relative to said tool body.

2. (Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to~~ The tool of Claim 1, wherein:

said tool body includes a main body, an upper body and a lower body; and,

said main body supporting said ~~plurality of connection means~~ at least one second connector for releasably connecting said tool body to a the seal assembly.

3. (Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to~~ The tool of Claim 2, wherein:

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~~said lower body includes said at least one first connector is located on said lower body plurality of connection means for releasably connecting said tool body to a casing hanger.~~

4. (Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to The tool of Claim 3, wherein:~~

~~said upper body includes comprises a frangible connection means connector securing said upper body to said pressure responsive shuttle piston prior to said the seal assembly being urged into the annulus between said the casing hanger and the surrounding tubular said wellhead.~~

5. (Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to The tool of Claim 4, wherein:~~

~~said pressure responsive shuttle piston further includes comprises a plurality of at least one actuator rods rod secured to an actuator rod head, said actuator rod head connected to said shuttle piston by a second frangible connection means connector, said frangible connection means being that is broken when said the seal is urged into the annulus between said the casing hanger and the surrounding tubular said wellhead.~~

6. (Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to The tool of Claim 5, wherein:~~

~~said lower body includes a plurality of latching dogs spaced circumferentially thereon, said latching dogs urged into engagement with said the casing hanger by axial movement of a latching ring positioned on said mandrel when said mandrel is axially moved relative to said lower body.~~

7. (Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to The tool of Claim 6, wherein:~~

~~said tool body and said shuttle piston including comprise a plurality of at least one flow return passage passages, said flow return passages passage cooperating with at~~

least one flow return passages passage in said the casing hanger to allow cementing of a casing string attached to the lower end of said the casing hanger prior to urging said the seal assembly into the annulus between said the casing hanger and the surrounding tubular said wellhead assembly.

8. (Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to~~ The tool of Claim 7, wherein:

~~said lower body includes operating means for operating operably connected to said valve means positioned in said mandrel bore, said operating means including by a ball pin for operating rotating a ball in said valve means between said open and closed positions.~~

9. (Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to~~ The tool of Claim 8, wherein:

~~said plurality of connection means positioned on said tool body for releasably connecting said tool body to a seal assembly includes at least one second connector comprises a plurality of at least one latching segments segment for retaining said the seal assembly in a position axially displaced above said the casing hanger during installation, said at least one latching segment when presented as a said plurality of latching segments has them circumferentially spaced around said main body of said tool body.~~

10. (Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to~~ The tool of Claim 9, wherein:

~~said plurality of latching segments for retaining said seal assembly are released from said the seal assembly by pressure applied in the bore of the said mandrel which shifts the said shuttle piston relative to the said tool body.~~

11. (Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to~~ The tool of Claim 10, wherein:

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said frangible connection means connector securing secures said upper body to said pressure responsive shuttle piston prior to said the seal assembly being urged into the annulus between said the casing hanger and the surrounding tubular said wellhead is and further comprises at least one bolt a plurality of tensile bolts.

12. (Currently amended) An installation tool for landing a casing hanger in a wellhead surrounding tubular and setting a seal assembly in the annulus between the casing hanger and wellhead-surrounding tubular without requiring rotation of the drill pipe string, comprising:

a mandrel having ~~a threaded~~ an upper end for connection to a first string of drill pipe and a bore therethrough;

a tool body having ~~a threaded~~ a lower end for connection to a second string of drill pipe, said tool body carried by said mandrel;

said tool body having a main body, an upper body and a lower body, said mandrel and said tool body axially moveable relative to one another, ~~a plurality of~~ at least one latching dogs dog positioned circumferentially on said lower tool body of said tool body for releasably connecting said tool body to a the casing hanger;

~~a plurality of~~ at least one latching segments segment circumferentially spaced on said ~~lower body of said tool body~~ for releasably connecting said tool body to a the seal assembly, without rotation of said mandrel;

a pressure responsive shuttle piston on said mandrel, said shuttle piston axially moveable to urge said the seal assembly into the annulus between said casing the hanger and ~~a wellhead~~ the surrounding tubular in which said casing hanger is landed; and,

said mandrel having a ball valve positioned in said mandrel bore, said ball valve operable between open and closed positions by axial movement of said mandrel relative to said tool body.

13. (Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to The tool of Claim 12, wherein:~~

said upper body ~~includes a plurality of tensile bolts circumferentially spaced thereon securing~~ is secured said upper body to said pressure responsive shuttle piston prior to said the seal assembly being urged into the annulus between said casing the hanger and the surrounding tubular said wellhead.

14. (Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to The tool of Claim 13, wherein:~~

~~said pressure responsive shuttle piston further includes a plurality of at least one actuator ~~rods~~ rod secured to an actuator rod head, said head selectively connected to said shuttle piston by a plurality of shear bolts, said plurality of shear bolts being broken for release when said the seal is urged into the annulus between said casing hanger and the surrounding tubular said wellhead.~~

15. (Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to The tool of Claim 14, wherein:~~

~~said plurality of latching dog dogs, positioned circumferentially on said lower body of said tool body for releasably connecting said tool body to said casing hanger is urged into engagement with said the casing hanger by axial movement of a latching ring positioned on said mandrel when said mandrel is axially moved relative to said lower tool body.~~

16. (Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to The tool of Claim 15, wherein:~~

~~said tool body and said shuttle piston including comprising a plurality of at least one flow return passage passages, said flow return passages passage cooperating with at least one flow return passages in the said casing hanger to allow cementing of a casing tubular string attached to the lower end of said casing hanger prior to urging said the seal assembly into the annulus between said casing hanger and the surrounding tubular said wellhead assembly.~~

17. (Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to The tool of Claim 16, wherein:~~

~~said lower tool body includes comprises a ball pin for operating said ball valve positioned in said mandrel ~~here~~ by axial movement of said mandrel relative to said tool~~

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body.

18.(Currently amended) ~~An installation tool for landing a casing hanger in a wellhead and setting a seal assembly in the annulus between the casing hanger and wellhead without requiring rotation of the drill pipe string, according to The tool of Claim 17, wherein:~~

~~said plurality of latching segment is segments for retaining said seal assembly are released from said the seal assembly by pressure applied in the bore of said the mandrel which shifts the said shuttle piston relative to the said tool body.~~

Please add the following new claims, 19-30:

19.(Newly added) An assembly for delivering a tubular string into a surrounding tubular for support in the surrounding tubular, comprising:

a mandrel;

a gripping member on said mandrel for selective release from the tubular string, without rotation of said mandrel, after delivery of said tubular string to a supported position in the surrounding tubular;

a seal member on said mandrel selectively actuatable by said mandrel into an abutting relation with the surrounding tubular.

20. The assembly of claim 19, wherein:

said gripping member is selectively initially engaged to the tubular string for delivery to a supported position in the surrounding tubular without mandrel rotation.

21. The assembly of claim 20, wherein:

said seal member is actuatable by said mandrel without rotation.

22. (Newly added) The assembly of claim 19, further comprising:

a tool body slidably mounted to said mandrel and supporting the tubular string.

23. (Newly added) The assembly of claim 22, further comprising:

a through passage in said mandrel and a valve mounted in said passage, said valve actuatable by relative sliding movement between said mandrel and said tool body.

24. (Newly added) The assembly of claim 23, further comprising:

a piston actuated by pressure within said passage when said valve is in a closed position to actuate said gripping member and said seal member in a predetermined order.

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25. (Newly added) The assembly of claim 24, wherein:

said gripping member comprises a plurality of circumferentially spaced latching dogs;

said seal member is releasably mounted to said tool body to allow said mandrel and tool body to be removed from the surrounding tubular while leaving the tubular string supported in the surrounding tubular and said seal member likewise supported in the surrounding tubular.

26. An assembly for delivering a tubular string into a surrounding tubular for support in the surrounding tubular, comprising:

a mandrel;

a gripping member on said mandrel for selective initial engagement to the tubular string, without rotation of said mandrel, for delivery of said tubular string to a supported position in the surrounding tubular;

a seal member on said mandrel selectively actuatable by said mandrel into an abutting relation with the surrounding tubular.

27. (Newly added) The assembly of claim 26, further comprising:

a tool body slidably mounted to said mandrel and supporting the tubular string.

28. (Newly added) The assembly of claim 27, further comprising:

a through passage in said mandrel and a valve mounted in said passage, said valve actuatable by relative sliding movement between said mandrel and said tool body.

29. (Newly added) The assembly of claim 28, further comprising:

a piston actuated by pressure within said passage when said valve is in a closed position to actuate said gripping member and said seal member in a predetermined order.

30. (Newly added) The assembly of claim 29, wherein:

said gripping member comprises a plurality of circumferentially spaced latching dogs;

said seal member is releasably mounted to said tool body to allow said mandrel and tool body to be removed from the surrounding tubular while leaving the tubular string supported in the surrounding tubular and said seal member likewise supported in the surrounding tubular.